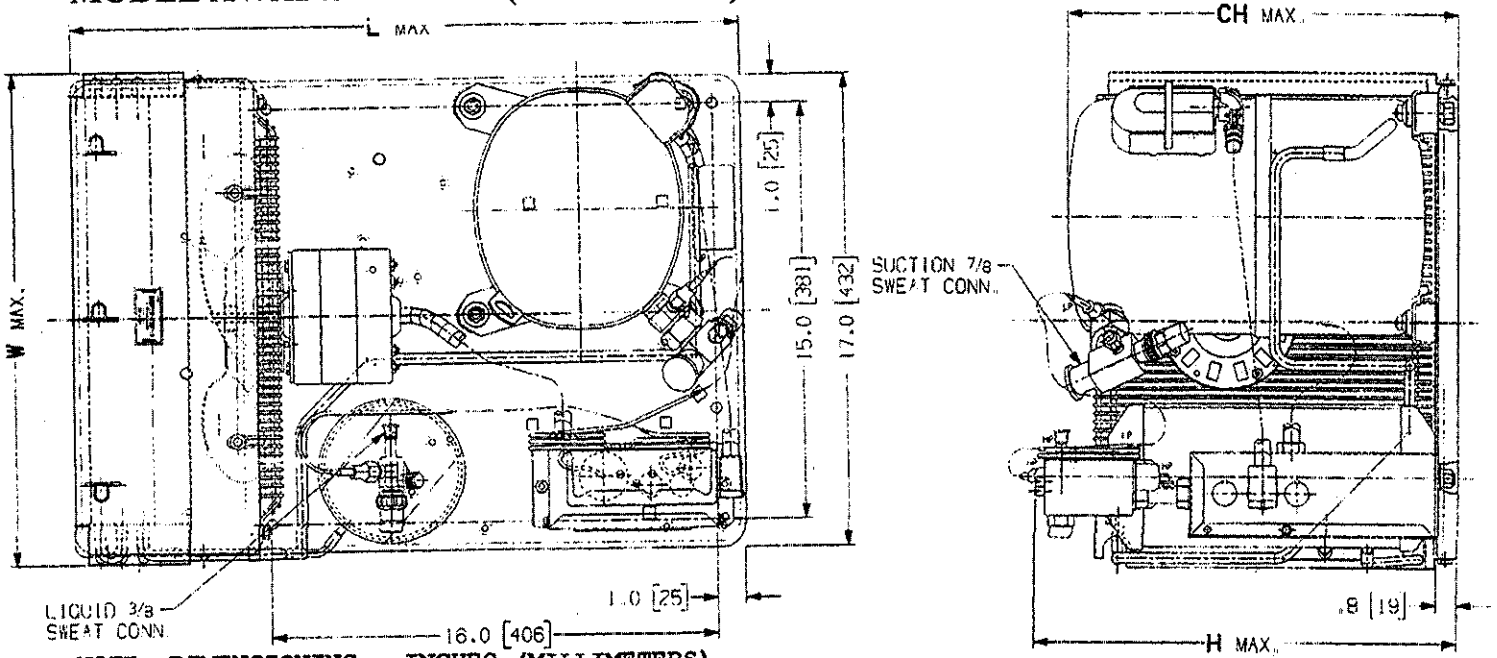
AWA2457ZXDXC

TECUMSEH HERMETIC CONDENSING UNITS

Jan 2003

MODEL AWA2457ZXDXC (B/M 2B3243-9) R-404A 1 1/2 HP AIR COOLED



NOTE: DIMENSIONING = INCHES (MILLIMETERS)

Model	Dimensions				*Line Connection		Pumpdown 90 ◦ F 90% Full	Air CFM	Oil Chg oz.	Gr. Wt. Lbs.
	L	W	H	CH	Suct.	Liq.				
AWA2457ZXDXC	24.0	17.8	16.4	14.3	7/8S	3/8S	6.3#	656	38	120

*F=Flare, S=Solder, RF or RS= Rotolock Valve with Flare or Solder Connections
Factory charge: 20 psig nitrogen - MUST BE EVACUATED 60 HZ PERFORMANCE

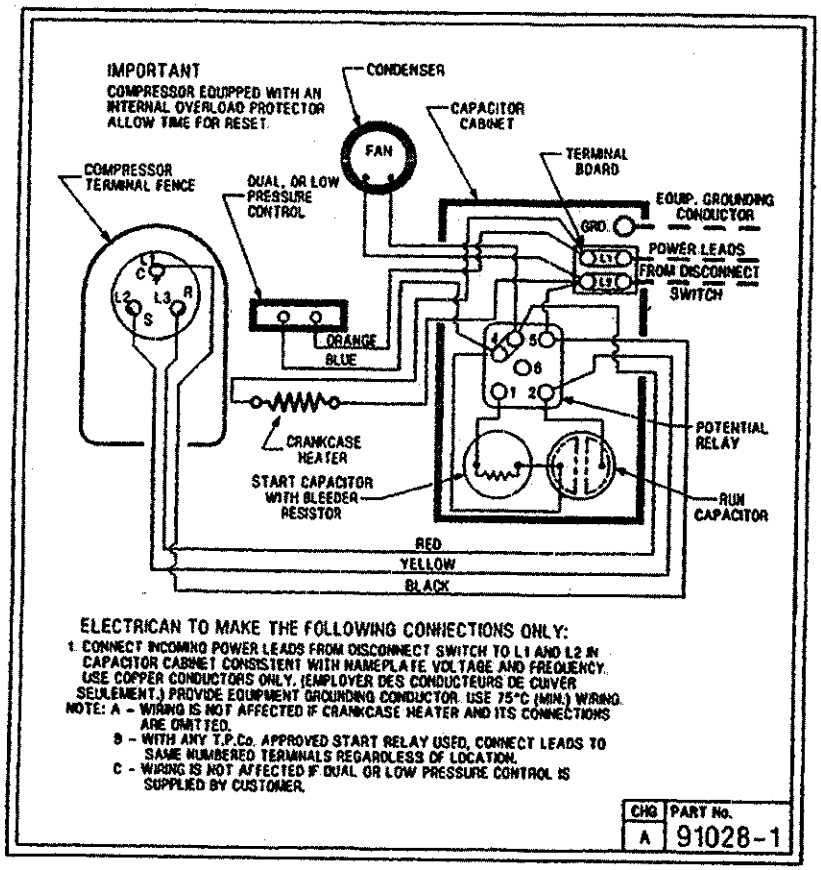
Approved Evap. Range		Ambient								
		90◦ F			100◦ F			110◦ F		
◦F	PSIG	BTUH	Watts	Head	BTUH	Watts	Head	BTUH	Watts	Head
-40	11.9	1940	892	229						
-30	15.0	3098	1067	243	2527	1010	275	1848	950	309
-25	18.4	3718	1165	252	3081	1118	283	2412	1072	316
-20	22.1	4365	1269	262	3659	1230	292	2979	1196	325
-15	26.1	5038	1380	272	4262	1347	302	3548	1320	336
-10	30.4	5738	1498	284	4888	1469	314	4120	1446	347
-5	35.0	6465	1623	297	5538	1595	327	4694	1572	359
0	40.0	7219	1754	311	6212	1725	340	5271	1700	373
+5	45.4	8000	1892	326	6910	1859	355	5851	1829	387
+10	51.2	8807	2037	342	7632	1998	372	6433	1960	403

Return gas temp. 65 ◦ F, 5 ◦ F subcooling

Date: January 2003
Unit Catalog Update
NEW

SPECIFICATIONS	**AWA2457ZXDXC**
Nominal Voltage	230/208-1
Unit B/M	2B3243-9
Voltage Range	253 to 187
Min. Circuit Ampacity	13
Max. Fuse Size (Amps)	25
Compressor Model	**AWA2450ZXD**
Comp. Bill of Material	AW615ET-111
RLA/LRA	5.90/56.00
ESP Overload	Internal
ESP Relay	P82965
Capacitor Cabinet	AE1397-048
Start Capacitor	85PS330D16
Rating	130-156MFD/330V
Run Capacitor	85PR370F23/P85E73
Rating	30MFD/370V
Control	84087 (Dual)

Fan Motor (OEM)	810S037B01
Fan RLA	1.10 RLA
Replacement Motor	TFM372
Fan Motor Bracket	Grd. Mnt.
Fan Blade	51563
Shroud	70736-1
Condenser	K42-4
Fan Guard	71062
Receiver Tank	51081
Receiver Tank Valve	31581-1 (3/8"S) RL
Suction Rotolock	31529-1 (7/8"S RL)
O' Ring Gasket	30334
Optional Outdoor Enclosure	IP-201D
Crankcase Heater (If Inc)	NA
Unit Drawing	SU1918-13
Schematic or Elect. Drawing	91028-1


IMPORTANT
COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR ALLOW TIME FOR RESET.
CONDENSER
CAPACITOR CABINET
FAN
TERMINAL BOARD
COMPRESSOR TERMINAL FENCE
DUAL, OR LOW PRESSURE CONTROL
EQUIP. GROUNDING CONDUCTOR
GRD.
POWER LEADS FROM DISCONNECT SWITCH
L1
L2
L3
ORANGE
BLUE
CRANKCASE HEATER
START CAPACITOR WITH BLEEDER RESISTOR
POTENTIAL RELAY
RUN CAPACITOR
RED
YELLOW
BLACK
ELECTRICAN TO MAKE THE FOLLOWING CONNECTIONS ONLY:
1. CONNECT INCOMING POWER LEADS FROM DISCONNECT SWITCH TO L1 AND L2 IN CAPACITOR CABINET CONSISTENT WITH NAMEPLATE VOLTAGE AND FREQUENCY. USE COPPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING.
NOTE: A - WIRING IS NOT AFFECTED IF CRANKCASE HEATER AND ITS CONNECTIONS ARE OMITTED.
B - WITH ANY T.P.Co. APPROVED START RELAY USED, CONNECT LEADS TO SAME NUMBERED TERMINALS REGARDLESS OF LOCATION.
C - WIRING IS NOT AFFECTED IF DUAL OR LOW PRESSURE CONTROL IS SUPPLIED BY CUSTOMER.
CHG
A
PART No.
91028-1

Some parts listed may be optional or listed as replacement parts.